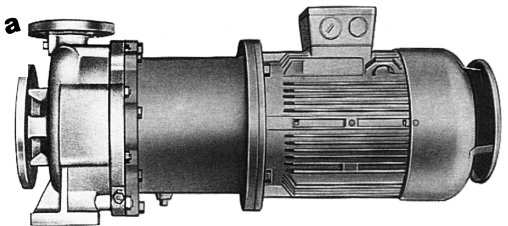


Volute Casing Centrifugal Pumps in Block Design with magnetic drive

ALLMAG®
Series CNB-M



Usage

For pumping toxic, volatile, explosive or other fluids harmful to the environment which call for service of hermetically tight pumps without shaft seal. The liquids must not chemically attack the pump / magnetic coupling materials.

Design/Construction/Mounting

Horizontal volute casing centrifugal pump with axial inlet, single stage, single entry in block design with magnetic drive. The volute casing dimensions and the hydraulic coverage corresponds to DIN EN 22858 / ISO 2858.

Horizontal and vertical mounting possible. At vertical mounting double axial bearing is to be planned generally.

The outer magnet rotor and the motor shaft are fixed together. The bearing of the outer rotor with the rows of permanent magnets is supported by the grease-lubricated ball bearings of the drive motor. Separated by the stationary can the inner rotor with analog magnet equipment is inserted into the outer magnetic rotor. The inner rotor, together with the impeller, is arranged on the pump shaft supported in slide bearings.

Torque transmission is contactless via the magnetic field lines between the outer and inner magnetic rotors.

The inner rotor is supported in exceptional solid silicone carbide slide bearings (axial-radial bearing) which hydrodynamically absorb all hydraulic forces and shocks within the entire characteristics range.

Performance data at 50 Hz

Q	up to 300 m³/h	p _d	up to 25 bar ① ②
H	up to 145 m	DN _d	from 25 to 100 mm
t	0 up to 250 °C ③ ④		

Nominal output of magnetic drive:

P up to 48 KW at 1450 1/min

P up to 96 KW at 2900 1/min

- ① Please take notice of the pressure/temperature limits in dependence of the material.
- ② Inlet pressure plus maximum delivery head (= 0-flow) must not exceed the stated value.
- ③ Special low-temperature version on request.
- ④ Maximum temperature at closed lantern and vertical mounting of the pump: 150 °C.

The mentioned performance data are only to be viewed as a product / performance overview. The exact operating limits are specified in the quotation and / or in the order acknowledgment.

Recommended Minimum

For actual flow rates, please see hydraulic coverage and / or individual hydraulic curves. As a protection against overheating when operating at low flow rates, a minimum flow rate is to be maintained according to the following formula:

$$Q_{min.} = 0.3 \times Q_{\eta \text{ opt}}$$

Flanges

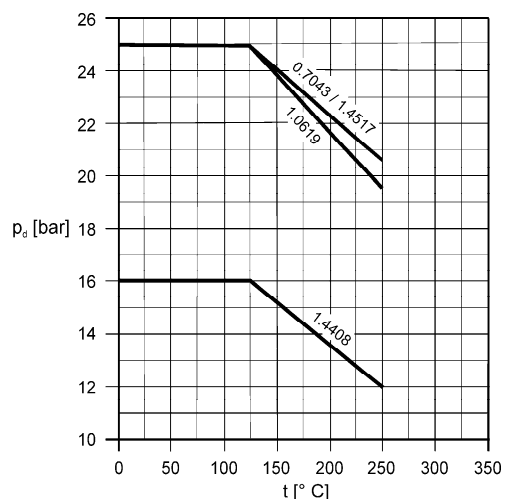
Flange dimensions according to DIN EN 1092-1 PN 16 / PN 25 and DIN EN 1092-2 PN 25.

Other flange dimensions are possible.

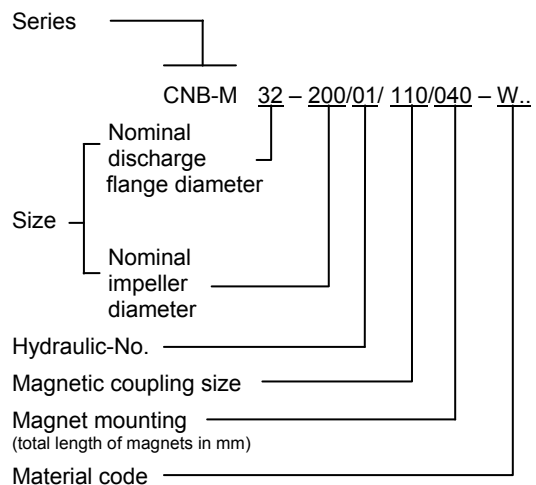
Drive

By serial three-phase squirrel-cage induction motor. Up to 2.2 kW, 230/400 V, from 3 kW 400/690 V, IP55.

Pressure and temperature limits as influenced by the casing material.



Abbreviation



Materials

Denomination	Material design			
	W 20	W 22	W 23	W 26
Volute casing	1.4408	EN-JS 1025	1.0619	1.4517
Impeller	1.4408	EN-JL 1030	EN-JL 1030	1.4408
Casing cover	1.4408	EN-JS 1025	1.0619	1.4517
Pump shaft	1.4571	1.4021	1.4021	1.4571
Driving shaft	1.7139			
Motor bracket	steel			
Can	2.4610/1.4571			
Rotor	1.4571/steel			

Other materials upon request.

Bearings

Sleeve bearing, conveyance fluid lubrication.

Dismantling the insert unit

By back pull-out design of the pump, the insert unit can be dismantled to the motor side. The volute casing remains at the base plate and in the piping.

Dismounting of motor and drive unit can take place without tension release of system and draining.

Explosion protection



The pump fulfils the requirements according to EC Explosion Protection Directive 2014/34/EU (ATEX 100a) for equipment and equipment group II, category 2 G. Categorisation into temperature classes according to EN 13463-1 depends on the temperature of the pumped medium. The max. permissible temperature of the pumped medium for the respective temperature classes are shown in the below table:

Danger classification	Temperature classification according to EN 13463-1	Maximum fluid temperature
II 2G/ EEx c/b II 3G/ EEX c	T4	97 °C
	T3	150 °C
	T2	150 °C
	T1	150 °C

Fire protection type b = monitoring of ignition sources

Fire protection type c = safe design

The temperatures mentioned above correlate with a maximum speed of 2900 1/min, a maximum ambient temperature of 40°C and the can material Hasteloy.

Can materials with abnormal physical characteristics only may be used after consultation with Allweiler.

Note: In case of the operation of a category 2 pump, the unacceptable heating of the pump surfaces caused by a possible operational fault must be prevented by a control mechanism. In case of an operation with know parameters (Q , H , v , p = const.), a pump performance controller can be supplied with the pump to detect any operational faults.

Units: Only drives may be used, which correspond to the requirements according to EC Explosion Protection Directive 94/9EG.

Product certification supported by:

TÜV Product Service GmbH, Ridler Str. 65, D-80339 München
ID: 0123.

Series CNB-M

Wear-resistant

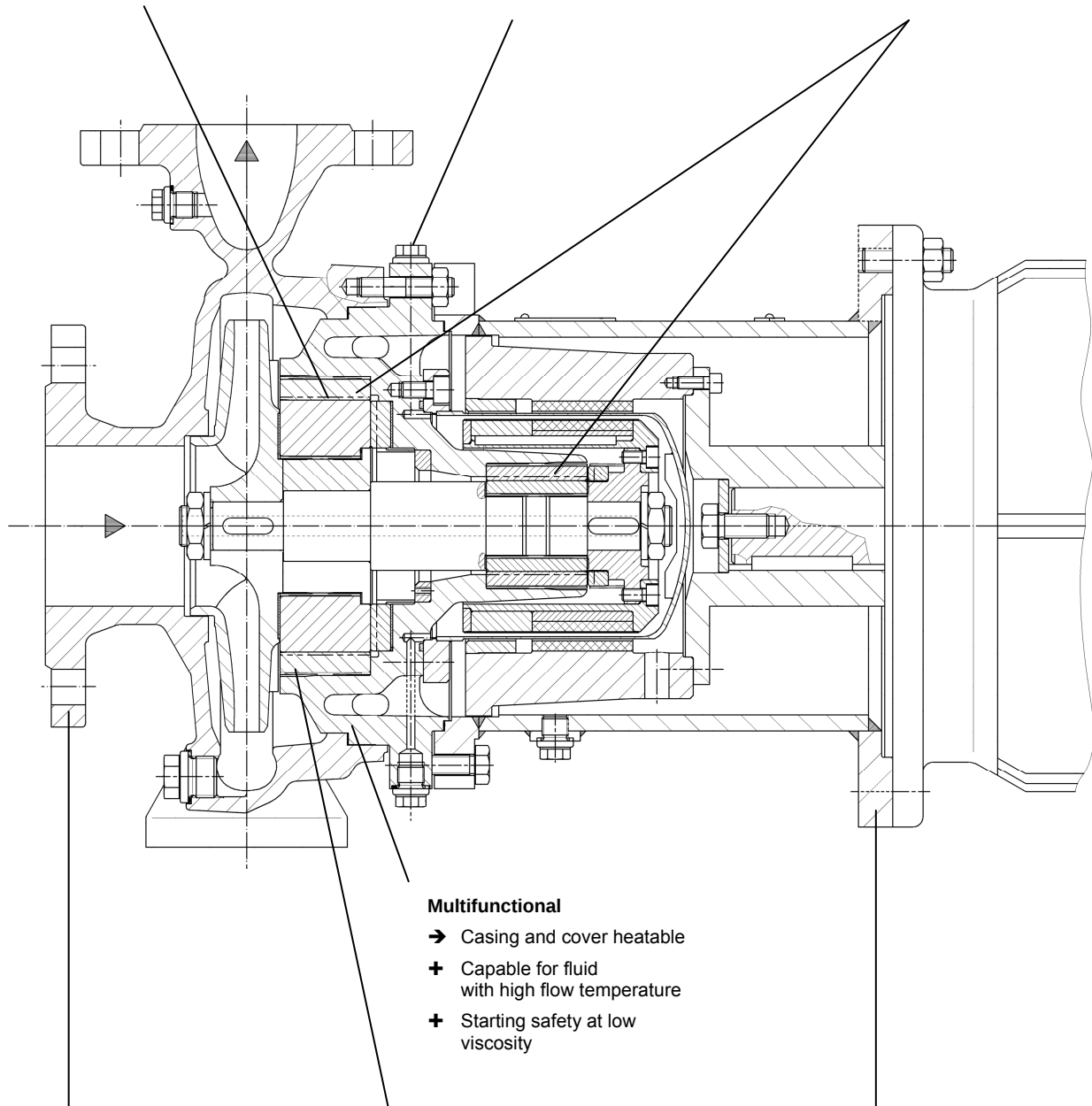
- ➔ Flush flow by SiC-sleeve bearings
- + Tolerance against solid particles
- + Security against leakages and damages of the can

Universal

- ➔ External flush flow
- + Suitable for stagnant and sticky fluid
- + Suited for temperature sensitive fluid

Reliable

- ➔ Generously dimensioned axial und radial bearing
- + Optimum counteract of all forces in the bearing
- + Exceptionally fail safe



Multifunctional

- ➔ Casing and cover heatable
- + Capable for fluid with high flow temperature
- + Starting safety at low viscosity

Easy to mount

- ➔ Back pull-out design
- + When dismantling the pump the volute casing can remain in the piping
- + Dismounting of motor and drive unit can take place without tension release of system and draining

Temperature tolerant

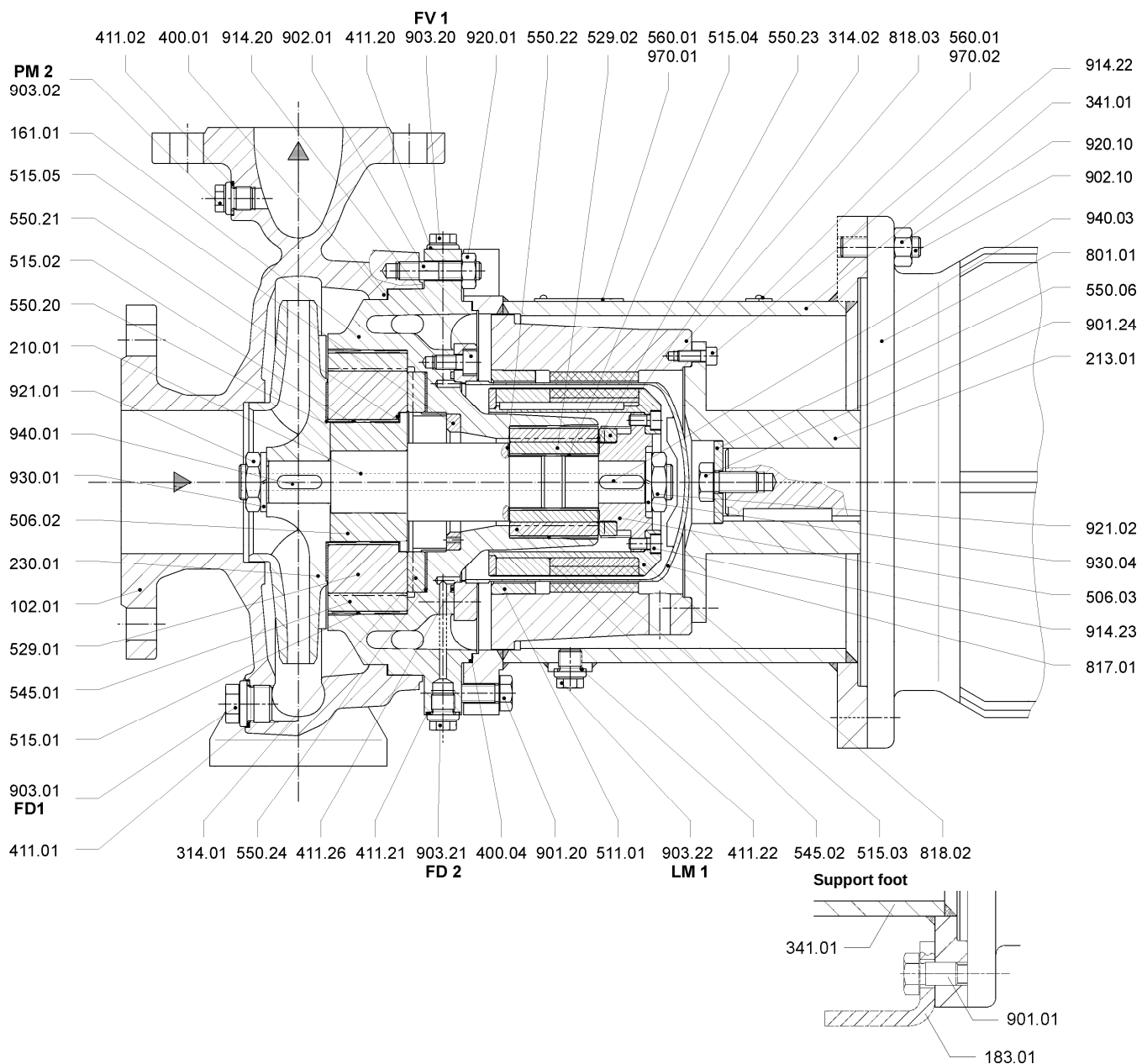
- ➔ Bearings mounted in flexible elements
- + Large temperature range also at high quality steel casing
- + Failure-free discharge at high temperature difference

Compact

- ➔ Block design
- + No coupling alignment required
- + Space saving

Sectional drawing

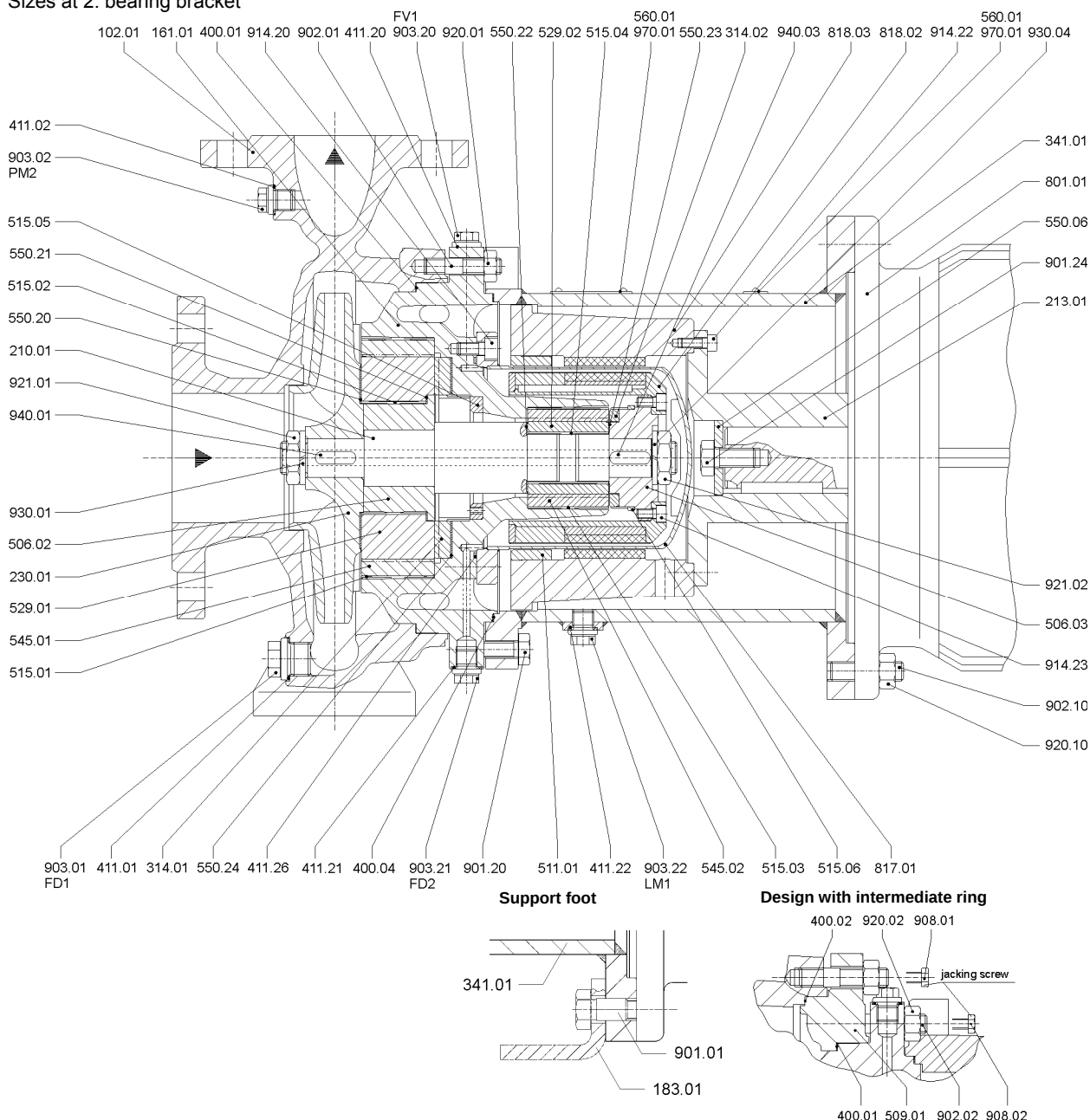
Sizes at 1. bearing bracket



Denomination	Part No.	Denomination	Part No.	Denomination	Part No.
Volute casing	102.01	Tension ring	515.03	Stud	902.10
Casing cover	161.01	Tension ring	515.04	Screw plug	903.01
Support foot	183.01	Tension ring	515.05	Screw plug	903.02
Pump shaft	210.01	Bearing sleeve	529.01	Screw plug	903.20
Drive shaft	213.01	Bearing sleeve	529.02	Screw plug	903.21
Impeller	230.01	Bearing bush	545.01	Screw plug	903.22
Axial bearing	314.01	Bearing bush	545.02	Hexagon socket screw	914.20
Axial bearing	314.02	Disc	550.06	Hexagon socket screw	914.22
Motor stool	341.01	Disc	550.20	Hexagon socket screw	914.23
Gasket	400.01	Disc	550.21	Hexagonal nut	920.01
Gasket	400.04	Disc	550.22	Hexagonal nut	920.10
Gasket	400.21	Disc	550.23	Hexagonal nut	921.01
Seal ring	411.01	Disc	550.24	Hexagonal nut	921.02
Seal ring	411.02	Grooved drive stud	560.01	Spring ring	930.01
Seal ring	411.20	Flange motor	801.01	Spring ring	930.04
Seal ring	411.22	Spacer can	817.01	Key	940.01
Seal ring	411.26	Rotor	818.02	Key	940.03
Retaining ring	506.02	Rotor	818.03	Rating plate	970.01
Retaining ring	506.03	Hexagon head screw	901.01	Rotation arrow	970.02
Centerring ring	511.01	Hexagon head screw	901.20		
Tension ring	515.01	Hexagon head screw	901.24		
Tension ring	515.02	Stud	902.01		

Sectional drawing

Sizes at 2. bearing bracket

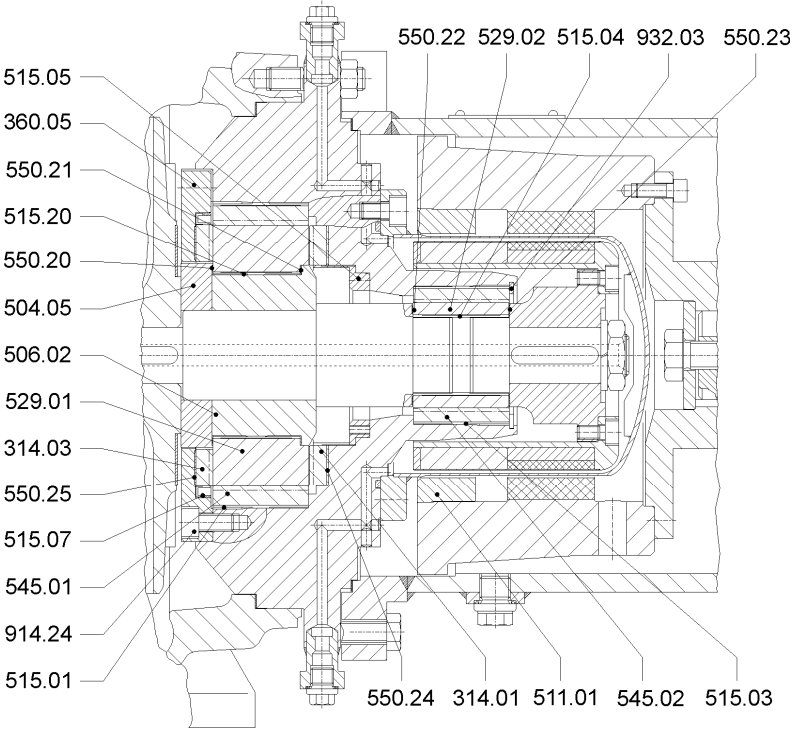


Denomination	Part No.
Volute casing	102.01
Casing cover	161.01
Pump shaft	210.01
Drive shaft	213.01
Impeller	230.01
Axial bearing	314.01
Axial bearing	314.02
Motor stool	341.01
Gasket	400.01
Gasket	400.02
Gasket	400.04
Seal ring	411.01
Seal ring	411.02
Seal ring	411.20
Seal ring	411.21
Seal ring	411.22
Seal ring	411.26
Retaining ring	506.02
Retaining ring	506.03
Intermediate ring	509.03
Centerring ring	511.01
Tension ring	515.01
Tension ring	515.02

Denomination	Part No.
Tension ring	515.03
Tension ring	515.04
Tension ring	515.05
Tension ring	515.06
Bearing sleeve	529.01
Bearing sleeve	529.02
Bearing bush	545.01
Bearing bush	545.02
Disc	550.06
Disc	550.20
Disc	550.21
Disc	550.22
Disc	550.23
Disc	550.24
Grooved drive stud	560.01
Flange motor	801.01
Spacer can	817.01
Rotor	818.02
Rotor	818.03
Hexagon head screw	901.20
Hexagon head screw	901.24
Stud	902.01
Stud	902.02

Denomination	Part No.
Stud	902.10
Screw plug	903.01
Screw plug	903.02
Screw plug	903.20
Screw plug	903.21
Screw plug	903.22
Jacking screw	908.01
Jacking screw	908.02
Hexagon socket screw	914.20
Hexagon socket screw	914.22
Hexagon socket screw	914.23
Hexagonal nut	920.01
Hexagonal nut	920.02
Hexagonal nut	920.10
Hexagonal nut	921.01
Hexagonal nut	921.02
Spring washer	930.01
Spring washer	930.04
Key	940.01
Key	940.03
Rating plate	970.01
Rotation arrow	970.02

Sectional drawing, Series CNB-M double axial bearing



Denomination	Part No.
Axial bearing	314.01
Axial bearing	314.03
Bearing cover	360.05
Spacer ring	504.05
Retaining ring	506.02
centerring ring	511.01
Tension ring	515.01
Tension ring	515.02
Tension ring	515.03
Tension ring	515.04
Tension ring	515.05
Tension ring	515.07
Bearing sleeve	529.01
Bearing sleeve	529.02
Bearing bush	545.01
Bearing bush	545.02
Disc	550.20
Disc	550.21
Disc	550.22
Disc	550.23
Disc	550.24
Disc	550.25
Hexagon socket screw	914.24
Circlip	932.03

Base plate or foundation design

$$h_1 > \frac{a_1}{2} \quad \text{or} \quad \frac{d}{2}$$

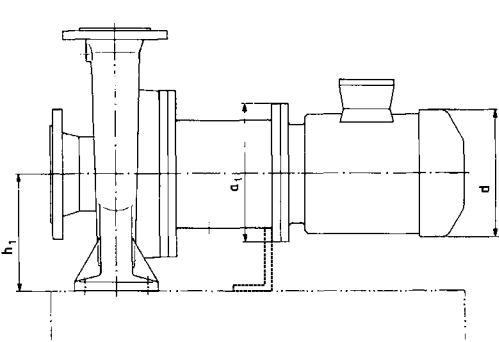
$$y = 0$$

Base plate or foundation design
without support foot

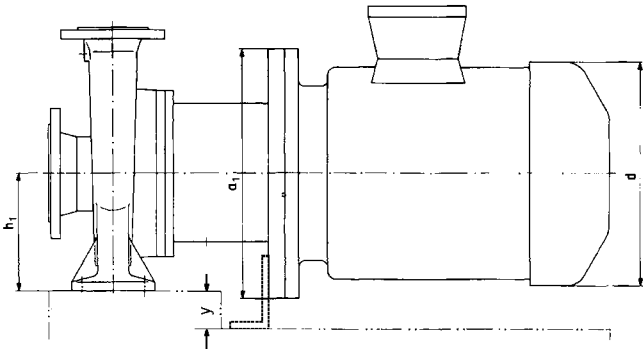
with support foot

$$h_1 \leq \frac{a_1}{2} \quad \text{or} \quad \frac{d}{2}$$

$$y > 0$$



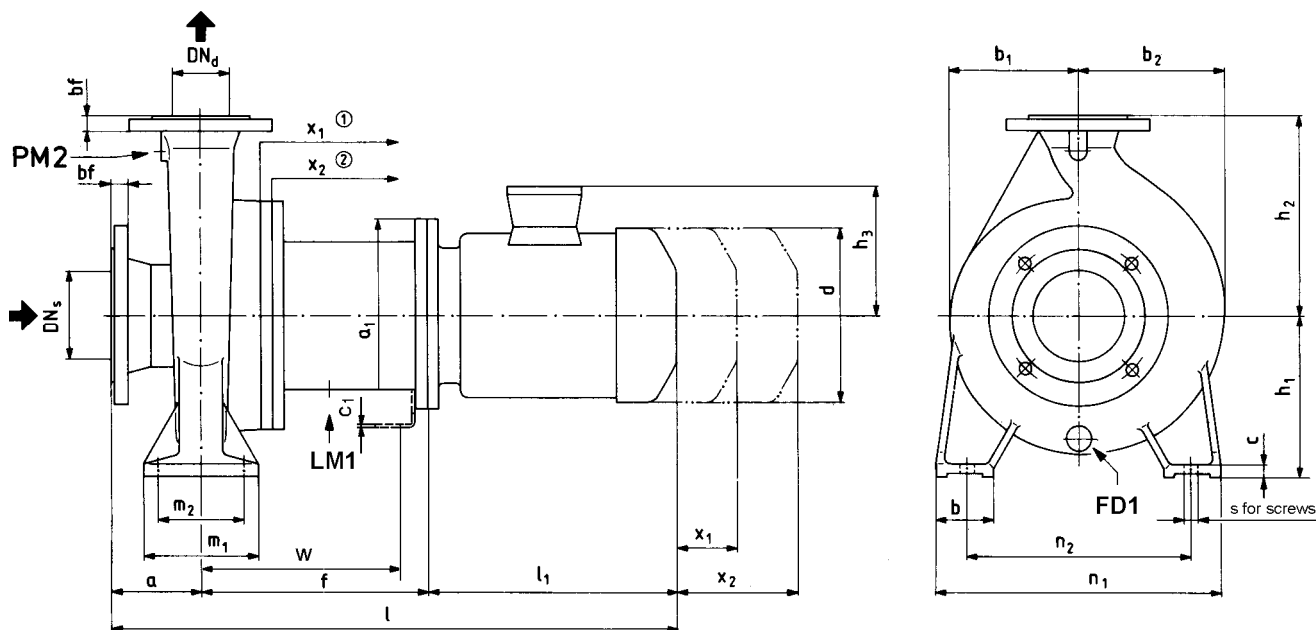
marking in table ●



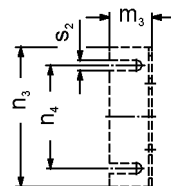
marking in table x

Unit dimensions

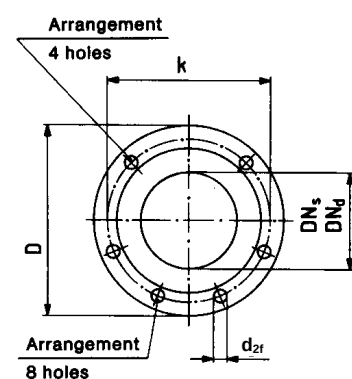
Sizes at 1. and 2. bearing bracket



Connections	Size	Denomination
FD1	G 1/2	Pumped fluid-draining
FD2	G 1/4	Pumped fluid-draining
PM2	G 1/4	Pressure measuring
FV1	G 1/4	Pumped fluid-venting
LM1	G 1/4	Leakage monitoring



Flanges and auxiliary connections



Flanges acc.to DIN EN 1092-1 PN 16 with material design W 20					
DN _d DN _s	D	b _f	k	d _{2f}	No. of holes
25	115	18	85	14	4
32	140	18	100	18	4
40	150	18	110	18	4
50	165	20	125	18	4
65	185	18	145	18	4
80	200	20	160	18	8
100	220	20	180	18	8
125	250	22	210	18	8

Flanges acc.to DIN EN 1092-1 PN 25 with material design W 23/W 26					
DN _d DN _s	D	b _f	k	d _{2f}	No. of holes
25	115	18	85	14	4
32	140	20	100	18	4
40	150	20	110	18	4
50	165	22	125	18	4
65	185	24	145	18	8
80	200	26	160	18	8
100	235	28	190	22	8
125	270	30	220	26	8

Flanges acc.to DIN EN 1092-2 PN 25 with material design W 22					
DN _d DN _s	D	b _f	k	d _{2f}	No. of holes
25	115	18	85	14	4
32	140	18	100	18	4
40	150	18	110	18	4
50	165	20	125	18	4
65	185	22	145	18	8
80	200	24	160	18	8
100	235	24	190	22	8
125	270	26	220	26	8

Motor rated output in kW

The motor dimensions as indicated are approximate values. Exact data depend on the motor make.

When using special motors, it must be noted that depending upon the enclosures, different performances are allocated to the individual sizes. The main dimensions are changes accordingly. In case of order, binding tables of motor dimensions must be transmitted to us.

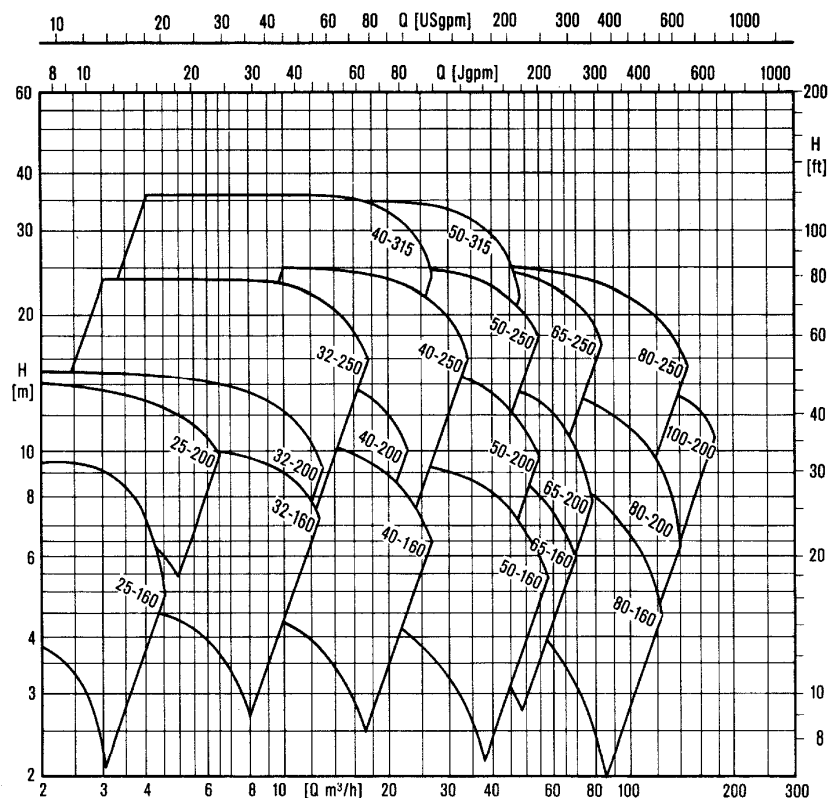
	100 L	112 M	132 S	160 M	160 L	180 M	200 L
n = 1450 1/min	2,2 3	4	5,5	11	15	18,5	30
n = 2900 1/min	3	4	5,5 7,5	11 15	18,5	22	30 37



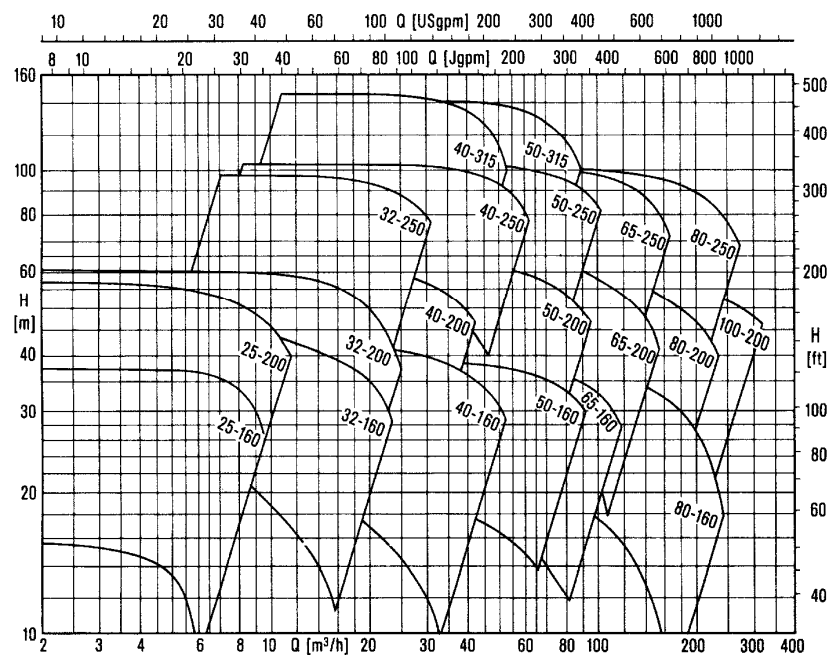
Pump size	Motor size	Base plate design	Support foot	Aggregate dimensions																										Extension dim. ④																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Performance graphs

$n = 1450 \text{ 1/min}$



$n = 2900 \text{ 1/min}$



For exact performance data, please refer to the individual characteristics.

Successful in important branches

Decades of experience and branch-specific know-how ensure solutions that are practical and dependable. In addition to individual units with a motor or with a free shaft end, you can get complete systems and customer-specific cast parts from ALLWEILER GmbH. You are not just investing in machines with ALLWEILER GmbH. You are also profiting from decades of know-how about applications and processes in your branch.

You will find pumps and systems by ALLWEILER GmbH in the following sectors:

► Marine and Offshore

Made of particularly corrosion-resistant, saltwater-proof materials and in accordance with specific standards (shock testing, national marine, international classifications etc.).

► Power Generation

Block and twin units for fuel and water injection in gas and steam turbines.
For fuel supply, injection and lubricating oil supply in power plants.

► Water and Wastewater

Pumps for water treatment (dry substance up to 45 %), macerators, which make it possible to pump liquids that are high in fibre and solids.

► Bioenergy

Materials resistant to aggressive intermediate and final products. Pumps for every step in the process.

► Process Engineering and Chemical Industry (ATEX-conformity)

Shaft bearing, shaft seal and material designs in accordance with the chemical characteristics of the pumped liquid. Magnetic coupling for hermetically sealed pumps.

► Oil and Gas

Pumps with a wide viscosity range, high pressure and large capacity.

► Building Industry

Special units for oil furnace and lift systems. Oil submersible pumps for all types of hydraulic machines.

► Food and Pharmaceutical

Stainless steel pumps with CIP and SIP design, EHEDG and FDA certified. Especially for the careful pumping and dosing of even sticky, pasty and solids-rich liquids.

► Machine Tool

Designed for large capacity or a high discharge pressure; resistant to contaminants and foreign matters. Especially for cooling lubricant supply.

► Pulp and Paper

Pumps with extremely high availability (24 hours; 365 days) and many sizes, starting with small dosing pumps and ranging to large kaolin feeding pumps.

► Heat Transfer

In supply circuits, circulating systems and heating circuits for pumping of hot water and heat transfer oil up to 207 °C and 450 °C.

ALLWEILER delivery range

Centrifugal Pumps

►Features

Pump capacities acc. to DIN EN 733 or DIN EN 22 858. Additional sizes enlarge the EN-performance range. Series construction acc. to the modular system. Single-stage or multistage pumps in block- or inline-design; pumps with magnetic coupling, pumps for heat transfer oil and hot water.

►Pumped liquids

Neutral or aggressive, pure, with solids content or contaminated, cold or hot, toxic or harmful to the environment.

►Performance data

Q up to 2,400 m³/h, H up to 250 m

Propeller Pumps

►Features

For large flows at relatively small delivery heads. Horizontal, vertical, submerged and elbow casing pumps.

►Pumped liquids

Neutral or aggressive, pure or contaminated, cold or hot.

►Performance data

Q up to 35,000 m³/h, H up to 20 m

Self-Priming Side Channel Pumps

►Features

Self-priming side channel segmental-type pumps.

►Pumped liquids

Neutral or aggressive, pure or contaminated, cold or hot, toxic, harmful to the environment.

►Performance data

Q up to 20 m³/h, H up to 350 m

Three-Screw Pumps

►Features

Three-screw, self-priming, very good efficiencies, very low noise level. The pumping process is continuous, nearly without pulsation and without turbulences. Self-priming, for horizontal and vertical installation, submerged pumps and pumps with magnetic drive.

►Pumped liquids

Oils or other lubricating, not lubricating or sparsely lubricating liquids.

►Performance data

Q up to 7,500 l/min, p_d up to 280 bar

Two-Screw Pumps

►Features

Two-screw, double-entry, self-priming, high suction power due to low NPSH-values, adapted for dry running.

►Pumped liquids

Oils or other lubricating, not lubricating or sparsely lubricating liquids.

►Performance data

Q up to 1,300 m³/h, p_d up to 40 bar

Progressing Cavity Pumps

►Features

Single-stage or multistage, self-priming. The pumping is continuous, nearly without pulsation and without turbulences, crushing or demixing.

►Pumped liquids

For pumping and dosing liquids of low to high viscosity; pasty, neutral or aggressive, pure or abrasive, gaseous or tending to froth, also with fibrous and solids content.

►Performance data

Q up to 7,500 l/min, p_d up to 36 bar

Rotary Lobe Pumps

►Features

Hermetically sealed pumps with no welded parts, sealing systems adapted to the liquid, sterile cleaning possible.

►Pumped liquids

For pumping and dosing liquids of low to high viscosity; pasty, neutral or aggressive, pure or abrasive, especially in the food and pharma industry.

►Performance data

Q up to 1,666 l/min, p_d up to 20 bar

Peristaltic Pumps

►Features

Dry self-priming, without seals and valves.

►Pumped liquids

For pumping and dosing liquids of low to high viscosity; pasty, neutral or aggressive, pure or abrasive, gaseous or tending to froth, also with fibrous and solids content.

►Performance data

Q up to 60 m³/h, p_d up to 16 bar

Macerators

►Features

Impeller with exchangeable, highly wear resistant milling cutters.

►Pumped liquids

For milling of fibres and solids (wood, textiles, glass etc.) that are contained in the liquids to be pumped and making them pumpable.

►Performance data

Q up to 160 m³/h, p_d up to 10 bar

Subject to technical alterations.



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